

### **Thesis**

Only breakthrough science can solve our greatest challenges.

These must-have solutions create enormous value.

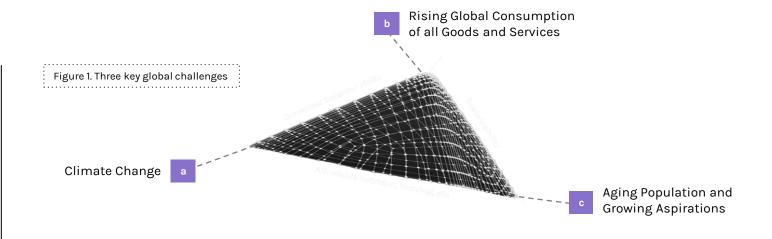
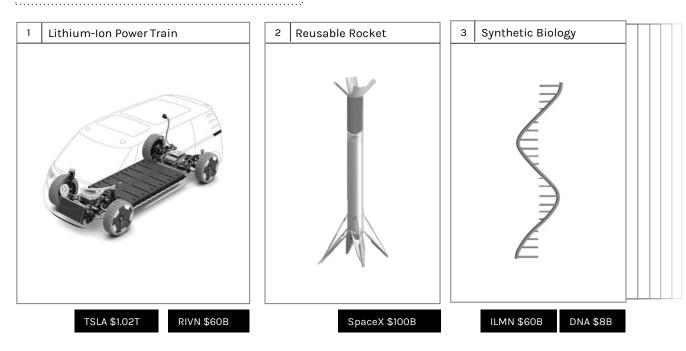


Figure 2. Example Breakthrough Scientific Innovations



### Who We Work With

# **Founders** of breakthrough science startups that have the potential to impact billions of lives



6 Focus Sectors

Solving

Challenges

Global

On-demand Power
Increased Energy

Renewable Energy Storage

Efficiency

Energy

Zero-Carbon
-demand Power

Decarbonized
Ground, Sea and Air
Transport

Safer and Faster Travel

Transportation

Space Frontier Access and Logistics

Air

Universal Internet Accessibility

Grid Flexibility & Resilience

Infrastructure

Climate-resilient

Infrastructure

Supply Chain Resilience

Manufacturing

Green Manufacturing

Attainable Housing Solutions

Sustainable Food Production

Agriculture

Affordable Nutrition

Scalable Alternative
Protein

Next-gen Mental Health Treatment

Human

Augmentation

Personalized & Regenerative Medicine

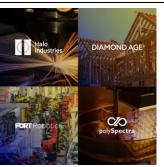
Extended Healthspan

Who We Work With







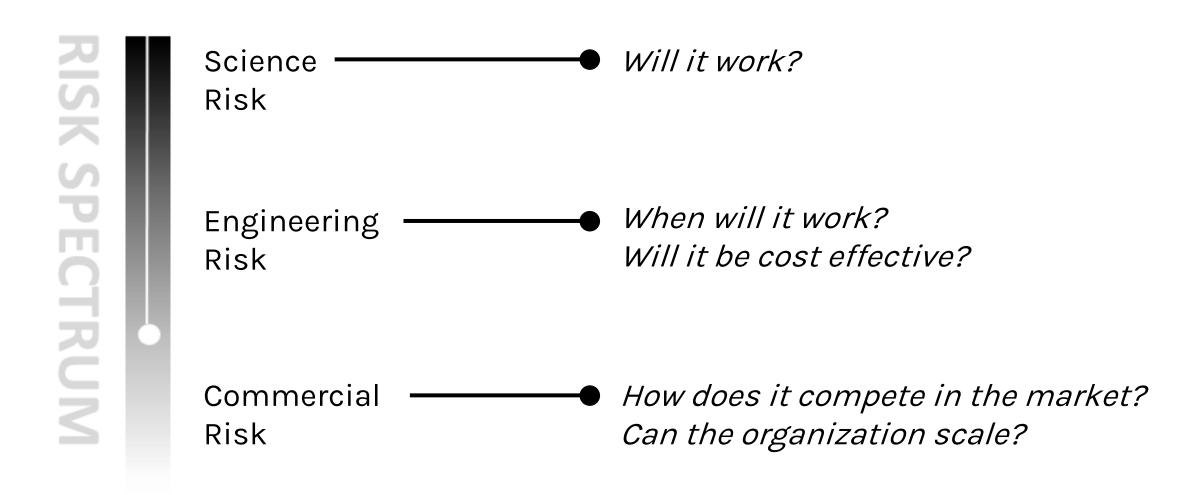






### **Managing Risk**

We work with companies that have retired as much science risk as possible and have a clear engineering plan.

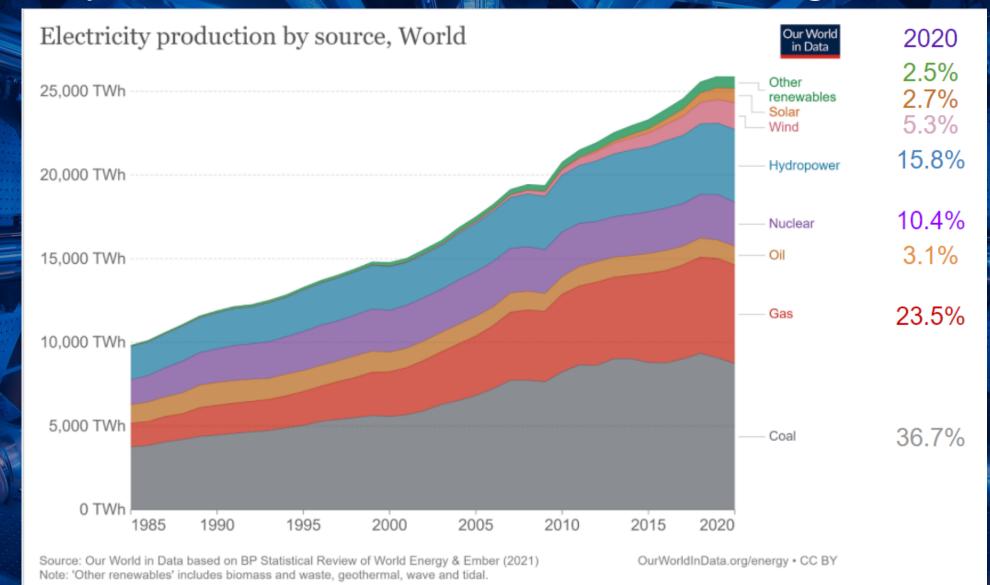








# Electricity Demand Is Massive and Growing

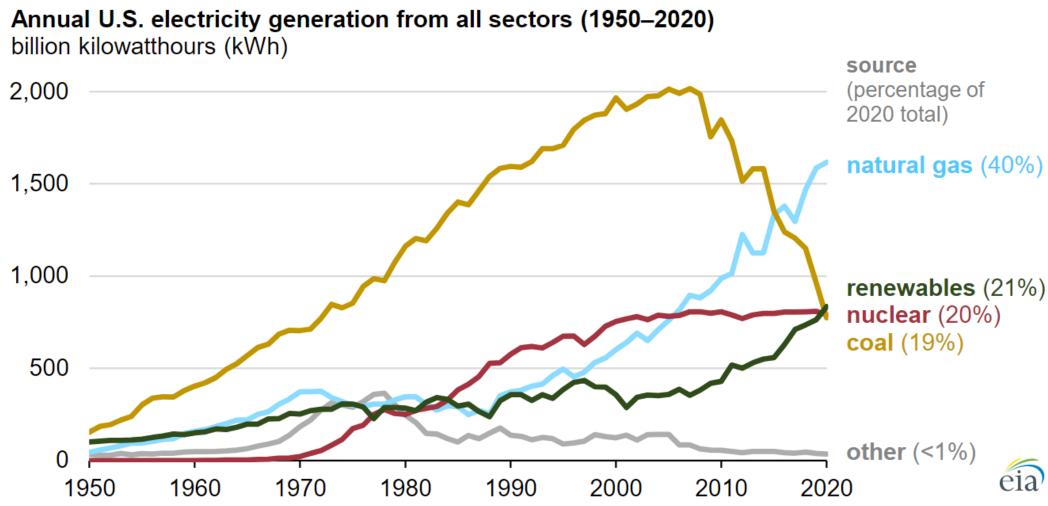


# And We Will Probably Use More Energy

- Global access to electricity
- Increasing air conditioning loads
- Electrifying passenger vehicles
- High temperature heat for industrial users (steel, cement, hydrogen)
- Carbon dioxide removal technologies
- Providing clean water (treatment, desalination)

- Cryptocurrency mining
- All the Starship launches
- Power to \_\_\_\_\_ (fuels, plastics, food?)
- Air taxis
- Space elevators
- Boiling the ocean

# The Energy Transition Has Started In Some Markets

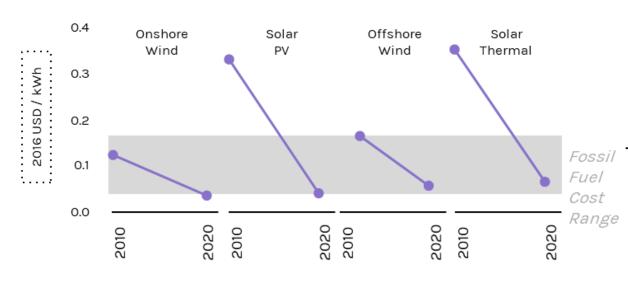


Source: U.S. Energy Information Administration (EIA), *Monthly Energy Review* 

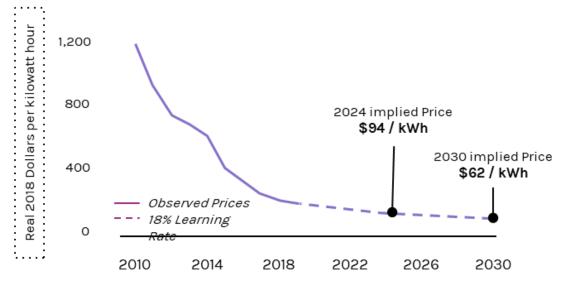
**Note:** This graph shows electricity net generation in all sectors (electric power, industrial, commercial, and residential) and includes both utility-scale and small-scale (customer-sited, less than 1 megawatt) solar.

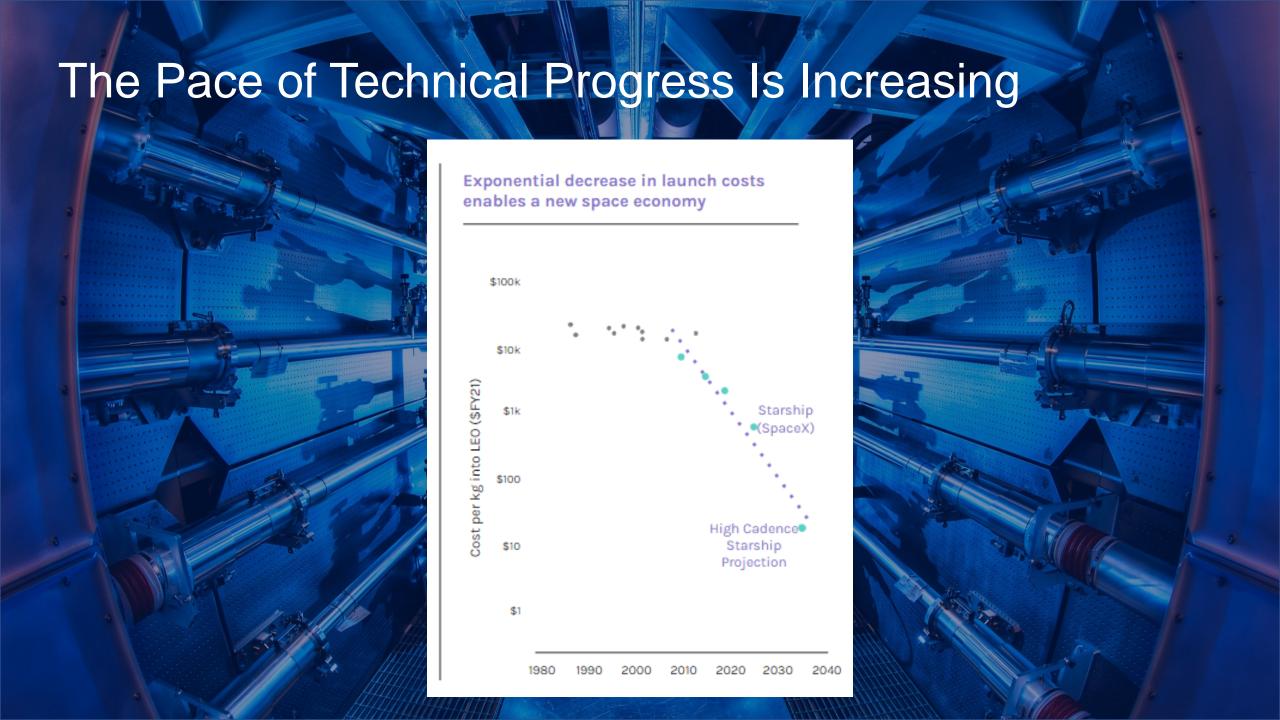
# The Pace of Technical Progress Is Increasing

### Massive cost decline for renewables



### Battery costs have fallen like solar



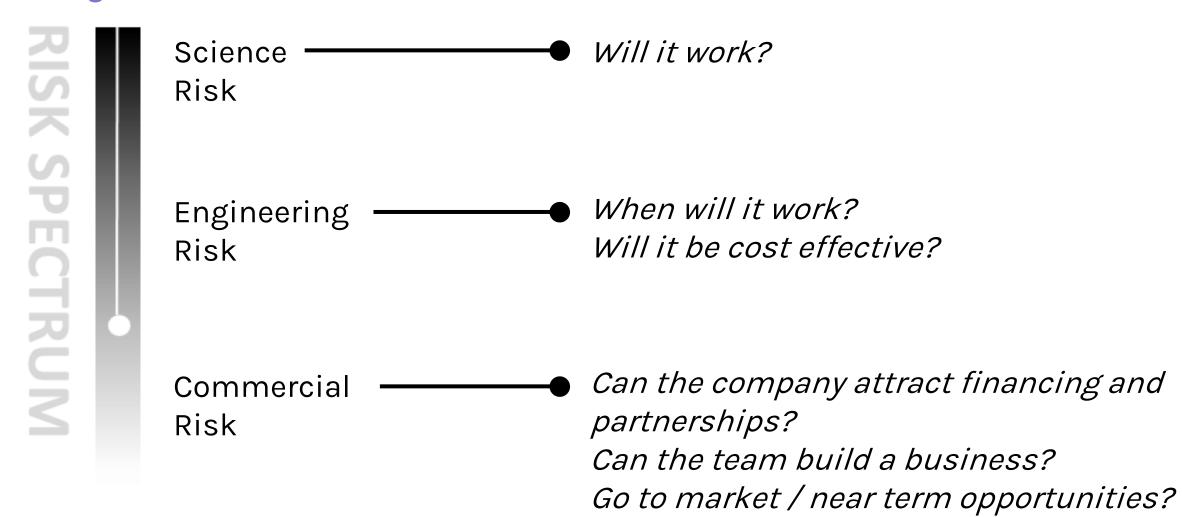




# What Is The Private Sector Looking For?

## Addressing ALL Areas of Startup Risk is Critical:

As new companies mature, the private sector expects all three areas - science, engineering, and commercial to be derisked.

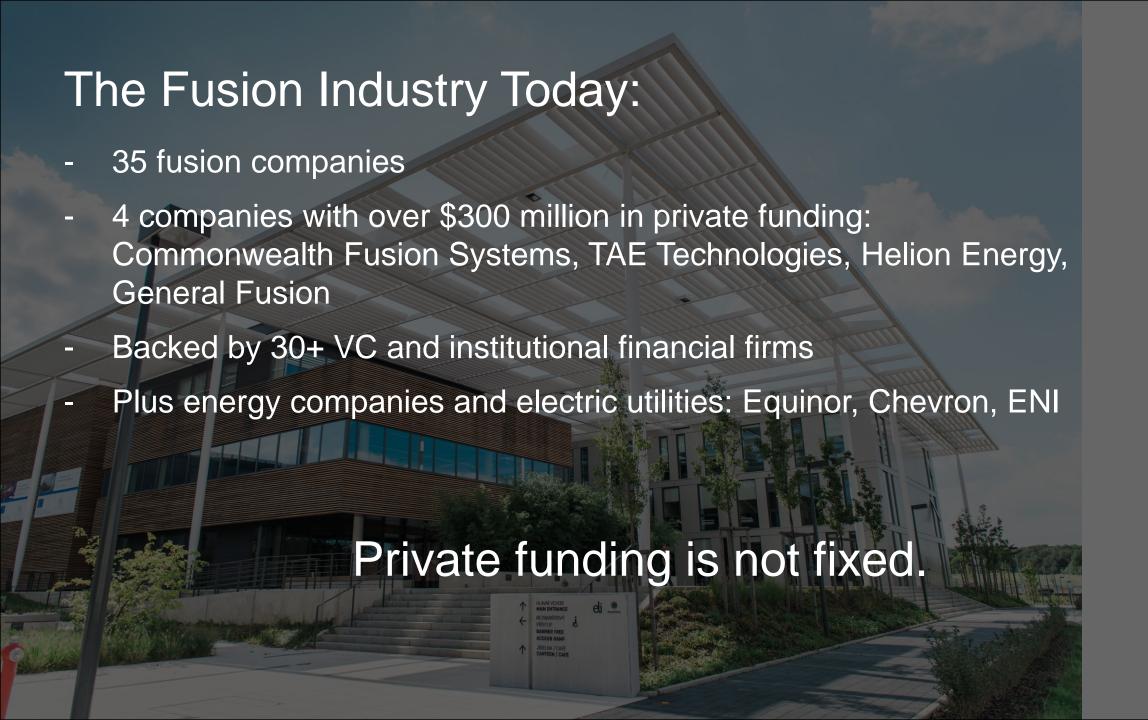


# Suggestions For Raising Private Capital

- It's a conversation, not a pitch
- Learn how to tell a story (or bring on talent for this!)
- Support the story with numbers (cost estimates, market projections, techno-economics)
- Go talk to people

### THERE ARE RESOURCES!

(grant programs, boot camps, incubators, accelerators, pitch competitions, advisors)



# Thank you!



Scaling breakthrough scientific startups that impact billions of lives